

## Title (en)

MIXED CRYSTALS OF PIGMENTS BASED ON HALOGENATED DIIMIDES OF PERYLENETETRACARBOXYLIC ACID

## Publication

**EP 0366062 A3 19911016 (DE)**

## Application

**EP 89119711 A 19891024**

## Priority

DE 3836536 A 19881027

## Abstract (en)

[origin: EP0366062A2] For the pigmenting of high-molecular weight organic materials, there is a high demand in industry for high-hiding-power organic red pigments, in particular yellowish red pigments, which are increasingly being employed as a substitute for ecologically unacceptable inorganic red pigments. However, this market opportunity cannot be satisfactorily exploited using the tetrachloroperylene-tetracarboxylic acid diimide pigments known for the abovementioned purpose. <??>It has now been observed according to the invention that a chlorine content of  $\leq 25\%$  in chlorinated perylimides of this type gives the pigments produced on this basis extraordinary dyeing properties, so that these pigments have better hiding power and body colour than the tetrachloroperylimide compounds described. Accordingly, the invention relates to high-hiding-power red pigments of the halogenated perylene-tetracarboxylic acid diimide type having up to 4 carbon atoms with a chlorine content of 15-25%, which are in the form of mixed crystal pigments in the  $\beta$ -modification having an optimum mean particle size of  $\leq 0.15 \mu\text{m}$ . Perylimide compounds having a higher chlorine content favour the simultaneous formation of the  $\alpha$ -phase.

## IPC 1-7

**C09B 67/22**; **C08K 5/34**; **C09B 5/62**; **C09B 67/48**

## IPC 8 full level

**C09B 5/62** (2006.01); **C08K 5/34** (2006.01); **C09B 67/22** (2006.01); **C09B 67/48** (2006.01); **C09D 7/12** (2006.01); **C09D 11/02** (2014.01); **C09D 11/037** (2014.01)

## CPC (source: EP US)

**C09B 67/0034** (2013.01 - EP US)

## Citation (search report)

- [A] EP 0081766 A1 19830622 - BAYER AG [DE]
- [A] EP 0260648 A2 19880323 - BASF AG [DE]
- [A] EP 0176900 A2 19860409 - HOECHST AG [DE]
- [AD] EP 0039912 A1 19811118 - HOECHST AG [DE]

## Cited by

EP1130062A3; US6521756B2; US6646126B2

## Designated contracting state (EPC)

CH DE FR GB IT LI

## DOCDB simple family (publication)

**EP 0366062 A2 19900502**; **EP 0366062 A3 19911016**; **EP 0366062 B1 19950118**; CA 2001531 A1 19900427; DE 3836536 A1 19900510; DE 58908911 D1 19950302; JP H02166168 A 19900626; US 5123966 A 19920623

## DOCDB simple family (application)

**EP 89119711 A 19891024**; CA 2001531 A 19891026; DE 3836536 A 19881027; DE 58908911 T 19891024; JP 27735389 A 19891026; US 62657090 A 19901212